

NCDOT Prioritization 3.0 Project Summary

SPOT ID: H110988

Mode: Highway

Status: Submitted

US-421 (Carolina Beach Road)

From/Cross Street: US 117 (Shipyard Boulevard)

Specific Improvement Type: 11 - Access Management

To: George anderson Drive

Project Category: Regional Impact

Length: 1.79

TIP#:

Fully Funded in Draft STIP? No

Cost to NCDOT: \$8,066,000

Description:

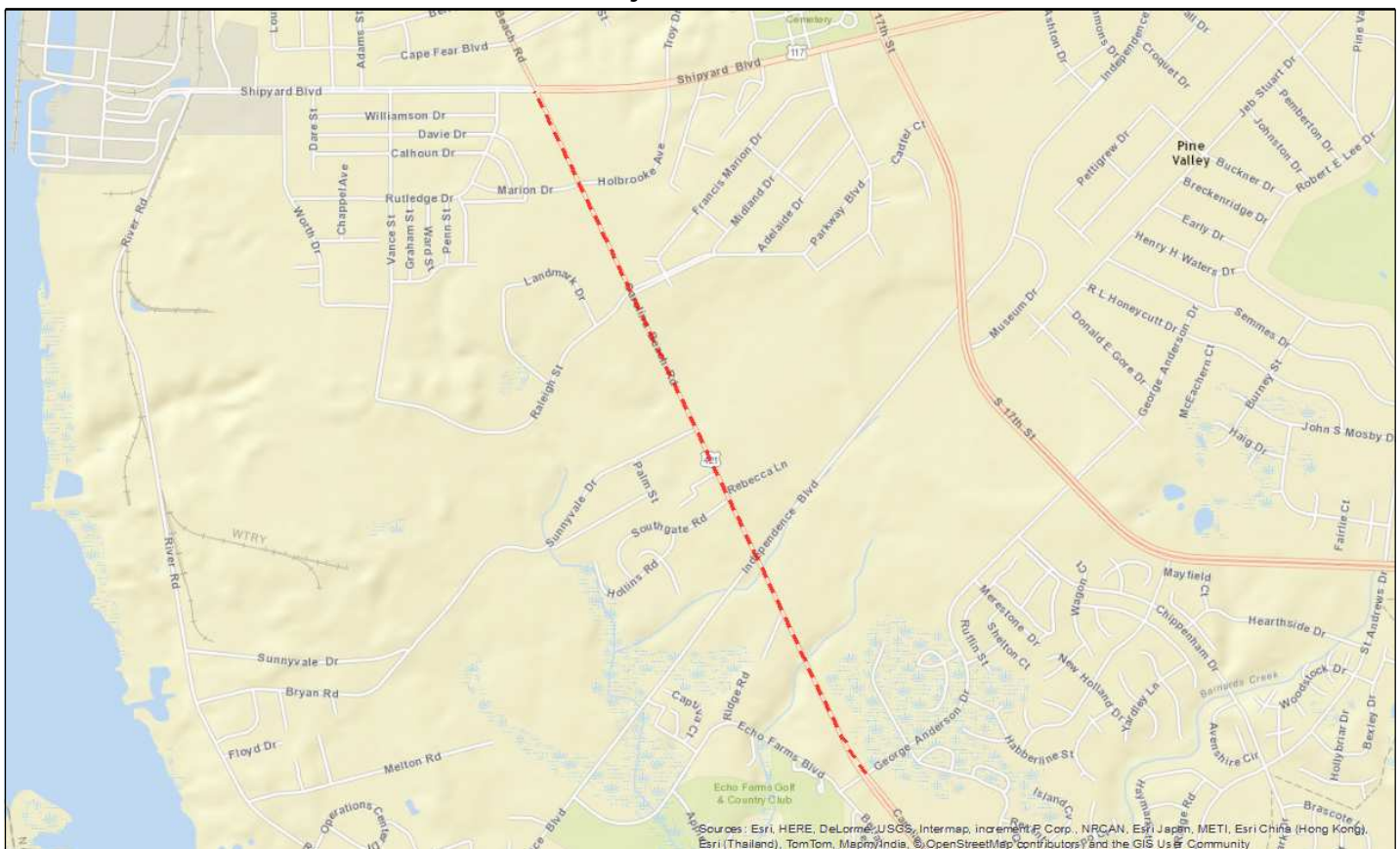
Upgrade Arterial By Adding a Landscaped Median

Division(s): Division 3

County(s): NEW HANOVER

MPOS(s)/RPO(s): Wilmington Urban Area MPO

Project Location



Statewide Mobility Total Score: 0

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Totals: Weight: 0% Weighted Score: 0	N/A	N/A

Regional Impact Total Score: 33.74

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Safety (25%) 69.52	Percent: 15%	Percent: 15%
Multimodal + [Freight & Military] (25%) 4.10	Points: 0	Points: 100
[Travel Time] Benefit/Cost (20%) 1.66		
Totals: Weight: 70% Weighted Score: 18.74		

Division Needs Total Score: 24.94

Quantitative Score	Division Engineer Local Input Points	MPO/RPO Local Input Points
Multimodal + [Freight & Military] (10%) 4.10	Percent: 25%	Percent: 25%
Congestion (V/C) (20%) 53.15	Points: 0	Points: 0
Safety (20%) 69.52		
Totals: Weight: 50% Weighted Score: 24.94		

Project Data ***Existing Conditions**

Existing Cross-Section:	
Speed Limit:	45
Length (miles):	1.79
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
Lane Width:	12
Paved Shoulder Width:	0
Roadway has Curb & Gutter?	Yes
Volume (AADT):	23182.31
Capacity:	31700.11
Volume/Capacity Ratio:	0.73
% Autos:	96%
% Trucks:	4%
Truck Volume:	820.84
Crash Density:	60.24
Crash Severity:	88.09
Critical Crash Rate:	60.24
Crash Frequency:	0
Severity Index:	0
County Tier Designation:	3
Non-Interstate STRAHNET Route?	No
Average Commuting Time:	20
Existing Median Type (for Cost Estimation):	TWLT
Pavement Condition Rating:	51
Actual Congested Speed:	38.59
Travel Time Index:	1.17

Project Benefits

Project Cross-Section:	4D - 4 Lane Divided (23' Raised Median) with Curb & Gutter, Wide Outside Lanes, Bike Lanes, and Sidewalks
Speed Limit:	45
Length (miles):	1.79
Facility Type:	Arterial
Access Control:	None
Functional Classification:	Other Principal Arterial
Terrain Type:	Level
DOT Design Lane Width:	12
DOT Design Paved Shoulder Width:	4
Travel Time Savings for 30 Years (Total):	600029.62
Travel Time Savings for 30 Years (Autos):	578783.67
Travel Time Savings for 30 Years (Trucks):	21245.95
Long-Term Employment:	
% Change in Economy:	
Provides Direct Connection to Transportation Terminal?	No
Does project upgrade how the roadway functions?	No
In CTP or LRTP?	No
CTP/LRTP Name:	
CTP/LRTP Completion Year:	
Submitted by:	Division 3

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

Project Ownership**Division**

Division	Percent	Regional Impact	Division Needs
Division 3	100%	0	0
	0%	0	0
	0%	0	0
TOTAL Division Points		0	0

MPO/RPO

MPO/RPO	Percent	Regional Impact	Division Needs
Wilmington Urban Area MPO	100%	100	0
	0%	0	0
	0%	0	0
TOTAL MPO/RPO Points		100	0

Project Cost and Source

Construction Cost:	\$5,814,000	TIP Unit
Right-of-Way Cost:	\$2,011,000	Cost Estimation Tool
Utilities Cost:	\$241,000	Cost Estimation Tool
Total Project Cost:	\$8,066,000	
Other Funding:	\$0	None
Cost to NCDOT :	\$8,066,000	